Cyber Power



UPS SYSTEMS

The CyberPower Story



The growth of CyberPower Systems is attributable to a strategic plan that engages our own award-winning international research and development team in the design of feature-rich products for IT professionals and tech-savvy consumers everywhere. At our advanced technology manufacturing facilities, we build a comprehensive line of innovative products, including uninterruptible power supply (UPS) systems, power distribution units (PDUs), surge protectors, mobile chargers and connectivity devices, all engineered to exceed international safety and environmental standards.

Whether you run a corporate data center, own a small business or simply use electronic devices in your home office or at leisure, CyberPower has the power protection systems to safeguard your equipment investment and valuable data.

A History of Firsts

Our rapid growth is tied directly to ongoing innovation that satisfies the needs of our customers. This focus has helped us achieve many firsts in the power protection industry.

Our many firsts include the following achievements:

- Integrating LED and LCD control panels on UPS systems for on-the-spot battery backup management.
 CyberPower still offers the largest selection of UPS models with LCD control panels.
- Developing patented GreenPower UPS[™] Technology to reduce UPS heat and energy loss. The result of this
 advancement was significant energy cost reduction up to 75% savings over conventional UPS systems.
- Offering a three-year repair or replacement warranty that includes batteries.
- Providing a Connected Equipment Guarantee, valued at up to \$500,000, for repair or replacement of properly connected equipment damaged by a surge, including surges due to lightning strikes.
- Incorporating Fast Charge Technology for Extended Battery Modules, allowing the UPS to return to 100% capacity in about one-third the time required by typical systems.
- Introducing PFC Sinewave Technology to fulfill the growing demand for pure sine wave backup for workstations and other mid-range systems with active power factor correction (Active PFC) power supplies. The PFC Sinewave™ UPS series was voted Best Channel Product in 2011 by readers of Business Solutions Magazine.

Global Distribution

Our products are available only through authorized distributors and are sold by value-added resellers, system integrators, various well-known e-tailers and at select retail stores.

The company's global reach is accomplished through offices and distribution centers located in Australia, France, the Netherlands, Russia, Japan, China, Taiwan, Mexico and the United States.

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Power Protection Overview

Choosing a UPS

CyberPower offers IT professionals and home office users a broad selection of uninterruptible power supply (UPS) solutions, all designed to protect sensitive electronic equipment and vital data from potential harm. The three topologies described here address ascending levels of protection from nine power problems, shown in graphic symbols. Throughout this catalog, these symbols are provided as an aid for selecting a UPS system that meets the specific protection needs of different users in varying environments. In addition, you will see information for each of our UPS series about waveform output - either sine wave or simulated sine wave - which is critical to the optimal performance of connected equipment. We are confident there is a CyberPower UPS that fits your environment and offers the protection you require.

Essential Protection — Standby

Standby is the most basic UPS topology. During a brownout or blackout, the UPS simply resorts to an internal battery to provide electricity. These UPS systems are designed for consumer electronics, computers, POS systems, security systems and other basic equipment.











Voltage

Voltage Brownout

Professional Protection — Line-Interactive

Line-Interactive topology systems incorporate technology that allows the UPS to correct minor power fluctuations (brownouts, overvoltages, etc.) without switching to battery. This extends the life of the battery and is essential in areas where power fluctuations occur regularly. Typical applications are consumer electronics, PCs and mid-range servers.







Sag

Voltage

Surae







Over Voltage

Total Protection — Double-Conversion

Double-Conversion topology provides consistent, clean and near perfect power, regardless of the condition of incoming power. Systems with this technology operate on isolated battery-supplied power 100% of the time and have a zero transfer time because they never need to switch to battery. Double-Conversion UPS systems are designed for high-end system components, corporate servers, lab equipment and other sensitive electronic devices.

Noise



Blackout



Sag

Voltage





Brownout



Voltage





Variation





Distortion

Waveform Output



Sine Wave

For applications requiring true sine wave power, UPS systems are available with sine wave output. These UPS systems are designed for electronics having Active PFC power supplies or

other devices requiring pure sine wave power to function properly. When the UPS is using normal utility power, it passes the utility-generated true or pure sine wave power to the connected equipment.



Simulated Sine Wave

Utility companies provide true sine wave AC power. Many UPS manufacturers acknowledge that some consumer electronics do not require a true or pure sine wave signal to

function properly, so they have engineered UPS systems that produce a simulated sine wave. Simulated sine wave systems offer a lower cost solution to produce battery power and are very common in entry-level to mid-level UPS products.

Product Line Features

This listing is intended as an overview of the many innovative features found in various CyberPower UPS systems. The features listed below are not available with all UPS models. A comprehensive list of features and specifications for each UPS model can be found on our website at cpsww.com.

Active PFC Compatibility

CyberPower UPS systems with pure sine wave output prevent unexpected shutdowns or component stress which may occur when devices with Active PFC power supplies are connected to an entry-level UPS that provides simulated sine wave power. See page 28 for more details.

Automatic Voltage Regulation (AVR)

Stabilizes AC voltages to maintain safe voltage levels without switching to battery mode, thereby conserving battery life and delivering cleaner AC power to connected equipment.

Connected Equipment Guarantee

CyberPower will repair or replace properly connected equipment if it is ever damaged by a surge, including surges due to lightning strikes. Refer to the warranty section of the device manual for more details.

Convertible Rack/Tower Configuration

Units can be set up horizontally or vertically, except 1U, and each unit ships with a rack mounting kit and tower stands.

Critical Load Outlets

During a power outage or overload, critical load outlets ensure continuous power to essential equipment. Systems with PowerPanel® Management Software allow programmable control of these outlets, including scheduled shutdowns and restarts.

Emergency Power Off Port (EPO)

EPO is a protection feature that can be used to instantly cut power to equipment in the event of fire, flood, overheating or any other emergency where it may not be possible to access the main disconnect device safely.

Generator Mode

During extended power outages, UPS models with this feature handle generator output aberrations as the generator and its loads go through initial ramp-up to full operation, preventing data corruption or shutdown of connected equipment.

GreenPower UPS™ Technology

Patented advanced circuitry reduces UPS energy consumption, heat buildup and overall UPS energy costs. See page 22 for more details.

Hot-Swappable Batteries

Eliminate power-related downtime and ensure maximum power availability. All potential UPS maintenance, including complete power module exchange, can be performed without powering down connected equipment.

Industry-Leading Three-Year Warranty

CyberPower will repair or replace damaged units within three years of purchase date—including dead batteries—a first for the UPS industry.

LCD Control Panel

The LCD interface allows users to check the status of the UPS, configure settings, review event logs, disable alarms and more. See page 10 for more details.

Multifunction LCD Display Panel

The LCD displays vital UPS status information, such as input voltage level, output voltage level, automatic voltage regulation, battery capacity, runtime estimate, load level, output frequency, on battery, overload, fault condition and silent mode—depending on model. See page 24 for more details.

Multiple Communication Ports

Communication is offered via multiple HID-compliant USB ports and serial ports, including remote monitoring using a standard web browser or network management system, with the addition of an optional SNMP/HTTP remote management adapter—depending on model.

Power Management Software

PowerPanel® software is included with CyberPower UPS systems. In the event of a power loss, PowerPanel Personal Edition ensure connected devices shut down safely. PowerPanel Business Edition gives administrators the tools for full local and remote control. See page 37 for more details.

RoHS & WEEE

Every CyberPower device is manufactured in accordance with the Restriction of Hazardous Substances (RoHS) directive by the European Union, mandating environmentally safe procedures and restricting the use of lead, cadmium, mercury, hexavalent chromium, PBB and PBDE. CyberPower manufacturing processes adhere to the Waste Electrical and Electronic Equipment (WEEE) directive, issued by the European Union, encouraging the collection, treatment, recycling and recovery of electrical waste and discarded electronic equipment.

Selectable Output Voltages

Certain high capacity CyberPower UPS models may be configured to output 200V, 208V, 220V, 230V and 240V $\pm\,2\%.$

Surge Protection with Automatic Shutdown

Limits the impact of both externally and internally generated high-voltage power spikes by restricting them to an acceptable level. If an electrical surge or spike exceeds the system's ability to suppress the electrical signal, the surge protector will shut the UPS down to safeguard all connected equipment. See page 34 for more details.

TAA Compliant

CyberPower manufactures products that are certified compliant with the U.S. Trade Agreements Act (TAA) and listed on the GSA Schedule Contract for approved use in government installations. Look for this • symbol for models that are TAA compliant.

Ultra-Quiet Design

Efficient design, advanced system components and GreenPower UPS™ Technology help minimize sound emissions for a quieter work environment.

UL Standards

All CyberPower UPS systems are manufactured and certified by Underwriters Laboratories (UL) passing strict testing requirements to ensure the highest electrical safety standards and performance.

Smart App Online

6kVA - 10kVA Rack/Tower Convertible OL Models

Waveform Output



Sine Way

Typical Applications

- Corporate Data Centers
- Corporate Servers
- Network and Storage Devices
- Complex Security Systems
- PBX and VoIP Installations

Features

- Double-Conversion Topology
- 0.9 Power Factor
- Pure Sine Wave Output
- Removable LCD Control Panel
- Fast Charge Technology
- Selectable Output Voltages
- Generator Mode
- GreenPower UPS ECO Mode
- PowerPanel Business Software

Smart App Online rack/tower UPS models, with

Double-Conversion topology, provide pure sine wave output to mission-critical applications and equipment requiring seamless power correction. These units offer generator compatibility and deliver clean AC power with zero transfer time.

Key User Benefits

Rack/Tower Versatility — Adapt to changing needs with horizontal rack or vertical tower installation options.

Removable LCD Control Panel — Easily check 38 UPS statuses and customize operating settings from up to ten feet away, with optional cable, when the UPS is installed in a hard-to-reach location.

Step-Down Transformer — Support both 120V and 200-240V output requirements with a single UPS solution. *On select models*.

Extended Runtime Battery Modules — Expand runtime and restore full backup power faster with EBMs featuring Fast Charge Technology.

Hot-Swappable Batteries — Eliminate downtime with hot-swappable batteries.

3-Cycle Battery Charging — Reduce heat and improve UPS battery life up to five years with the Smart Battery Management (SBM) charging system.

GreenPower UPS™ ECO Mode — Save on electrical and cooling costs by using the configurable ECO Mode to improve UPS efficiency up to 95%.

Remote Management — PowerPanel Business® Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Total Protection



Blackout













Voltage





Battery Technology

Fast Charge Technology

Backup power supply is returned to 100% capacity quicker with Fast Charge Technology, because each Extended Battery Module attached to the UPS has its own charger. Typical systems share a single charger for all attached battery modules, increasing the time required to fully restore backup power.

Smart Battery Management (SBM)



SBM is an intelligent battery charging system that extends the functional life of a UPS battery. It works by charging the battery in several phases, avoiding the constant trickle charge that can reduce battery life in units without SBM technology.

In addition to the advanced battery charger, SBM also reduces battery deterioration caused by excessive heat during working cycles. These combined features result in extended periods between UPS battery replacements.

All new Smart App Online Extended Battery Modules include new Fast Charge Technology.

Fast Charge Technology Extended Battery Module (EBM) Charge Time Comparison Smart App Online UPS + 4 EBMs Legacy UPS + 4 EBMs Legacy UPS + 4 EBMs Average Charge Time



OL10000RT3U

- A Input Breaker
- **B** Noncritical Load Outlets
- Output Breaker
- D Hard-Wired Input
- Hard-Wired Output
- F Critical Load Outlet
- G Serial, USB, Remote LCD Ports
- High Volume Fan
- RJ45 Protection
- Relay Output

- K SNMP Slot
- Extended Battery Port
- M EPO Port
- N Back-Feed Protection
- Battery AC Input/Output
- P Battery Output 240V
- EBM Connection
- R DC Breaker

Rack/Tower U	IPS Spec	cificatio	ns							6kVA – 1			
Pure Sine Wave Model	s		Input			Output						General	
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
OL6000RT3U	6000/ 5400	15.8/5.3	200-240	40–70	L6-30P	L6-20R (2) L6-30R (2)	200, 208,	50/60 ±0.25%	HID USB,	6	6U	~	BP240V30ART3U
OL8000RT3U	8000/ 7200	13/5	200–240	40-70	HW	L6-30R (3) HW (1)	220, 230, 240	50/60 ±0.25%	Serial, SNMP, EPO	N/A	6U	~	BP240V30ART3U
OL10000RT3U	10000/	11/4	200-240	40-70	HW	L6-30R (3)		50/60		N/A	6U	~	BP240V30ART3U

Extended Battery Mod	ule				Vis	it website for ad	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30ART3U	3P240V30ART3U OL6000RT3U, OL8000RT3U, OL10000RT3U		240V	12V/7.2AH (20)	17 x 5.2 x 26	167.2	3 Years



- Output Breaker
- B L6-20R/L6-30R Outlets
- **O** 120V 5-20R Outlets
- Input Breaker
- Noncritical Load Outlets
- F Hard-Wired Input
- G Hard-Wired Output
- H Critical Load Outlet
- Serial, USB, Remote LCD Ports
- High Volume Fan
- K RJ45 Protection
- Relay Output
- M SNMP Slot
- N Extended Battery Port
- O EPO Port
- Back-Feed Protection
- Battery AC Input/Output
- R Battery Output 240V
- S EBM Connection
- DC Breaker

Rack/Tower U	PS with	Step-D	own Tr	ansform	er Spe	cificatio	ns					6k	VA – 10kVA
Pure Sine Wave Models				Input		Output				General			
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
OL6000RT3UTF	6000/ 5400	15.8/5.3	200–240	40-70	L6-30P	L6-20R (2) L6-30R (1) 5-20R (12)	120 and	50/60 ±0.25%	HID USB.	6	8U	~	BP240V30ART3U
OL8000RT3UTF	8000/ 7200	13/5	200–240	40–70	HW	L6-20R (2) L6-30R (4)	200, 208, 220, 230, 240	50/60 ±0.25%	Serial, SNMP, EPO	N/A	9U	~	BP240V30ART3U
OL10000RT3UTF	10000/ 9000	11/4	200–240	40-70	HW	HW (1) 5-20R (12)	240	50/60 ±0.25%		N/A	9U	~	BP240V30ART3U



OL10000RT3UPDU

- A Input Breaker
- B Safety Lock
- Maintenance Bypass Switch
- D Hard-Wired Input
- Hard-Wired Output
- F Serial, USB, Remote LCD Ports
- G High Volume Fan
- H RJ45 Protection
- Relay Output
- SNMP Slot

- K Extended Battery Port
- **L** EPO Port
- M Back-Feed Protection
- N Output Breaker
- O Noncritical Load Outlets
- P Critical Load Outlets
- O Battery AC Input & Output
- **B** Battery Output 240V
- S EBM Connection
- DC Breaker

Hot-Swappable	Hot-Swappable Rack/Tower UPS Specifications 6kVA – 10kV												VA – 10kVA
Pure Sine Wave Models		Input			Input Output						General		
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
OL6000RT3UPDU	6000/ 5400	15.8/5.3	200–240	40-70	HW	L6-20R (2)	200. 208.	50/60 ±0.25%	HID USB.	N/A	6U	~	BP240V30ART3U
OL8000RT3UPDU	8000/ 7200	13/5	200-240	40–70	HW	L6-30R (4) HW (1)	220, 230, 220, 230, 240	50/60 ±0.25%	Serial, SNMP, EPO	N/A	6U	~	BP240V30ART3U
OL10000RT3UPDU	10000/ 9000	11/4	200-240	40-70	HW			50/60 ±0.25%		N/A	6U	~	BP240V30ART3U

Extended Battery Mode	ule				Vis	it website for ad	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30ART3U	OL6000RT3UTF, OL8000RT3UTF, OL10000RT3UTF OL6000RT3UPDU, OL8000RT3UPDU, OL10000RT3UPDU	4 Hours	240V	12V/7.2AH (20)	17 x 5.2 x 26	167.2	3 Years



OL6000RT3UPDUTF

- A Output Breaker
- B 5-20R Outlets
- O Input Breaker
- Safety Lock
- Maintenance Bypass Switch
- F Hard-Wired Input

- G Hard-Wired Output
- H Serial, USB, Remote LCD Ports
- High Volume Fan
- RJ45 Protection
- Relay Output
- SNMP Slot

- M Extended Battery Port
- N EPO Port
- Back-Feed Protection
- P Noncritical Load Outlets
- Oritical Load Outlets
- R Battery AC Input & Output
- S Battery Output 240V
- T EBM Connection
- U DC Breaker

Hot-Swappable	e Rack/	Tower l	JPS wi	th Step-	Down	Transfor	mer Spe	cificatio	ns			6k	VA – 10kVA	
Pure Sine Wave Models				Input	Output						General			
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
OL6000RT3UPDUTF	6000/ 5400	15.8/5.3	200–240	40-70	HW	L6-20R (2) L6-30R (3) HW (1) 5-20R (12)	120 and 200, 208,	50/60 ±0.25%	HID USB,	N/A	8U	•	BP240V30ART3U	
OL8000RT3UPDUTF	8000/ 7200	13/5	200–240	40–70	HW	L6-20R (4) L6-30R (5)	220, 230, 240	50/60 ±0.25%	Serial, SNMP, EPO	N/A	9U	~	BP240V30ART3U	
OL10000RT3UPDUTF	10000/ 9000	11/4	200–240	40-70	HW	HW (1) 5-20R (12)		50/60 ±0.25%		N/A	9U	~	BP240V30ART3U	



OL10000RT3UHW

- A Input Breaker
- B Safety Lock
- Maintenance Bypass Switch
- Hard-Wired Input
- Hard-Wired Output
- F Serial, USB, Remote LCD Ports
- G High Volume Fan
- H RJ45 Protection
- Relay Output
- U SNMP Slot

- K Extended Battery Port
- **L** EPO Port
- M Back-Feed Protection
- N Battery AC Input & Output
- O Battery Output 240V
- P EBM Connection
- O DC Breaker

Hot-Swappabl	e Hard-\	Wired F	Rack/To	ower UP	S Spec	cification	is			6kVA – 10kVA				
Pure Sine Wave Models				Input			(Output		Gener				
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
OL6000RT3UHW	6000/ 5400	15.8/5.3	200–240	40-70	HW		200. 208.	50/60 ±0.25%	HID USB.	N/A	6U	~	BP240V30ART3U	
OL8000RT3UHW	8000/ 7200	13/5	200–240	40–70	HW	HW (1)	220, 230,	50/60 ±0.25%	Serial, SNMP, EPO	N/A	6U	~	BP240V30ART3U	
OL10000RT3UHW	10000/ 9000	11/4	200–240	40-70	HW			50/60 ±0.25%		N/A	6U	~	BP240V30ART3U	

Extended Battery Mod	ule				Vis	it website for ad	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30ART3U	OL6000RT3UPDUTF, OL8000RT3UPDUTF, OL10000RT3UPDUTF, OL6000RT3UHW, OL8000RT3UHW, OL10000RT3UHW	4 Hours	240V	12V/7.2AH (20)	17 x 5.2 x 26	167.2	3 Years

Smart App Online

6kVA - 10kVA Tower OL Models

Waveform Output



Sine Wave

Typical Applications

- Corporate Data Centers
- Corporate Servers
- Network and Storage Devices
- Complex Security Systems
- PBX and VoIP Installations

Features

- Double-Conversion Topology
- 0.9 Power Factor
- Pure Sine Wave Output
- Removable LCD Control Panel
- Fast Charge Technology
- Selectable Output Voltages
- Generator Mode
- GreenPower UPS ECO Mode
- PowerPanel Business Software

Smart App Online tower UPS models, with Double-Conversion topology, provide pure sine wave output to mission-critical applications and equipment requiring seamless power correction. These units offer generator compatibility and deliver clean AC power with zero transfer time.

Key User Benefits

Removable LCD Control Panel — Easily check 38 different UPS statuses and customizable operating settings from up to ten feet away, with optional cable, when the UPS is installed in a hard-to-reach location.

Step-Down Transformer — Support both 120V and 200-240V output requirements with a single UPS solution. *On select models*.

Extended Battery Modules (EBM) — Expand runtime and restore full backup power faster with EBMs featuring Fast Charge Technology.

Hot-Swappable Batteries — Eliminate downtime with hot-swappable batteries.

 $\label{eq:smart_battery} \textbf{Smart Battery Management (SBM)} - \textbf{Reduce heat and improve UPS battery life up to five years with the three cycle battery charging system.}$

GreenPower UPS™ ECO Mode — Save on electrical and cooling costs by using the configurable ECO Mode to improve UPS efficiency up to 95%.

Remote Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Total Protection





















LCD Control Panel

Removable LCD Control Panel

When the UPS is installed in a hard-to-reach area, such as the bottom of a rack, in a crowded IT closet or on the floor, the LCD control panel may be removed and relocated for easy access up to ten feet away, when connected by a DB26 cable (sold separately) to the front or back of the UPS.

Menu Functions

UPS Status — Displays 19 vital UPS statuses including input and output voltage, battery information, runtime estimates, load data and more.

LCD Settings Configuration — Offers customization of the UPS with 38 specific operation parameters including output voltage, sync frequency, alarm settings and more.

Event Log — Allows recording of all UPS events with or without PowerPanel Business Edition management software.

Multi-Language — Display text in English, Spanish or French.

 ${\bf Disable\ Audible\ Alarms\ -\ Turn\ off\ audible\ alarms\ as\ needed}.$

 $\label{eq:manual Battery Test} \mbox{ Hamiltonian} = \mbox{Enables self-testing to ensure the UPS is operating properly.}$



This innovative LCD interface permits users to check UPS status, diagnose problems and manage setup on-site, in addition to convenient configuration with PowerPanel® Business Edition management software and optional remote management of the unit.



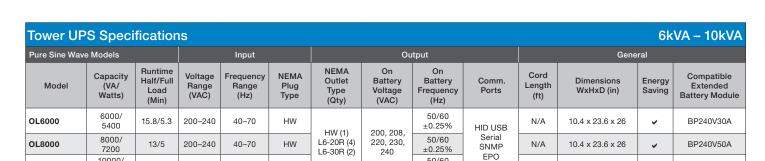
- A EPO Port
- B SNMP Slot
- © Back-Feed Protection
- Relay Output
- Serial, USB, Remote LCD Ports
- High Volume Fan
- G Input Breaker
- Output Breaker
- Noncritical Load Outlets
- RJ45 Protection
- K Extended Battery Port
- Critical Load Outlets
- M Hard-Wired AC Bypass
- N Hard-Wired AC Input
- O Hard-Wired AC Output
- Steel Caster
- Leveling Feet



The Extended Battery Module offers increased runtimes during power outages.

10.4 x 23.6 x 26

N/A



10000/

11/4

200-240

40-70

HW

OL10000

Extended Battery Mod	ule				Visi	t website for add	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30A	OL6000	4 Hours	240V	12V/7.2AH (20)	10.4 x 23.6 x 26	167.2	3 Years
BP240V50A	OL8000, OL10000	5 Hours	240V	12V/9AH (20)	10.4 x 23.6 x 26	167.2	3 Years

50/60

BP240V50A





A EPO Port

- B SNMP Slot
- Back-Feed Protection
- Relay Output
- Serial, USB, Remote LCD Ports
- Fan High Volume Fan
- **G** Input Breaker
- (H) Output Breaker
- Noncritical Load Outlets
- RJ45 Protection
- K Extended Battery Port
- Critical Load Outlets
- M Hard-Wired AC Bypass
- N Hard-Wired AC Input
- O Hard-Wired AC Output
- Steel Caster
- Q Leveling Feet

- 18.2"

OL8000TF / OL10000TF

Tower UP	S with S	Step-Do	own Tra	ınsforme	er Spec	ification	ıs					6k	VA – 10kVA
Pure Sine Wav	e Models			Input		Output					Gene	ral	
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	UPS/Transformer Dimensions WxHxD (in)	Energy Saving	Compatible Extended Battery Module
OL6000TF	6000/ 5400	15.8/5.3	200–240	40-70	HW	5-20R (12)	120 and	50/60 ±0.25%	HID USB	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	~	BP240V30A
OL8000TF	8000/ 7200	13/5	200–240	40-70	HW	L6-20R (4) L6-30R (6)	200, 208, 220, 230,	50/60 ±0.25%	Serial SNMP	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	~	BP240V50A
OL10000TF	10000/ 9000	11/4	200–240	40-70	HW	(,,	240	50/60 ±0.25%	EPO	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	~	BP240V50A

Extended Battery Mod	ule				Visi	t website for add	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30A	OL6000TF	4 Hours	240V	12V/7.2AH (20)	10.4 x 23.6 x 26	167.2	3 Years
BP240V50A	OL8000TF, OL10000TF	5 Hours	240V	12V/9AH (20)	10.4 x 23.6 x 26	167.2	3 Years



- A EPO Port
- B SNMP Slot
- Back-Feed Protection
- Relay Output
- E Serial, USB, Remote LCD Ports
- Fan High Volume Fan
- G Input Breaker
- H RJ45 Protection
- Extended Battery Port
- Hard-Wired AC Bypass
- K Hard-Wired AC Input
- Hard-Wired AC Output
- M Steel Caster
- N Leveling Feet



The Extended Battery Module offers increased runtimes during power outages.

Hard-Wir	ed Towe	r UPS	Specifi	cations								6k	VA – 10kVA
Pure Sine Wave	Pure Sine Wave Models Input						Οι	ıtput			Gene	eral	
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Dimensions WxHxD (in)	Energy Saving	Compatible Extended Battery Module
OL6000HW	6000/ 5400	15.8/5.3	200–240	40-70	HW		200 208	50/60 ±0.25%	HID USB	N/A	10.4 x 23.6 x 26	~	BP240V30A
OL80000HW	8000/ 7200	13/5	200–240	40-70	HW	HW (1)	200, 208, 220, 230, 240	50/60 ±0.25%	Serial SNMP	N/A	10.4 x 23.6 x 26	~	BP240V50A
OL10000HW	10000/ 9000	11/4	200–240	40-70	HW			50/60 ±0.25%	EPO	N/A	10.4 x 23.6 x 26	~	BP240V50A

Extended Battery Mode	ule				Visi	t website for add	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30A	OL6000HW	4 Hours	240V	12V/7.2AH (20)	10.4 x 23.6 x 26	167.2	3 Years
BP240V50A	OL8000HW, OL10000HW	5 Hours	240V	12V/9AH (20)	10.4 x 23.6 x 26	167.2	3 Years





- A EPO Port
- B SNMP Slot
- Back-Feed Protection
- Relay Output
- **■** Serial, USB, Remote LCD Ports
- Fan High Volume Fan
- G Input Breaker
- (H) Output Breaker
- Noncritical Load Outlets
- Oritical Load Outlets
- K RJ45 Protection
- Extended Battery Port
- M Hard-Wired Bypass
- N Hard-Wired Input
- O Hard-Wired Output
- Steel Caster
- Q Leveling Feet

18.2"

OL6000HWTF

Hard-Wire	d Tower	UPS w	ith Ste	p-Down	Transf	ormer S	oecifica	tions				6k	VA – 10kVA
Pure Sine Wave N	Models			Input			Οι	ıtput			Gene	eral	
Model	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	UPS/Transformer Dimensions WxHxD (in)	Energy Saving	Compatible Extended Battery Module	
OL6000HWTF	6000/ 5400	15.8/5.3	200–240	40-70	HW	5-20R (2)	120 and	50/60 ±0.25%	HID USB	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	>	BP240V30A
OL8000HWTF	8000/ 7200	13/5	200–240			L6-20R (2) L6-30R (12)	200, 208, 220, 230,	50/60 ±0.25%	Serial SNMP	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	>	BP240V50A
OL10000HWTF	10000/ 9000	11/4	200-240	40-70	HW	HW(1)	240	50/60 ±0.25%	EPO	N/A	10.4 x 23.6 x 26/ 10.4 x 18.2 x 16.9	>	BP240V50A

Extended Battery Mod	ule				Visi	t website for add	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP240V30A	OL6000HWTF	4 Hours	240V	12V/7.2AH (20)	10.4 x 23.6 x 26	167.2	3 Years
BP240V50A	OL8000HWTF, OL10000HWTF	5 Hours	240V	12V/9AH (20)	10.4 x 23.6 x 26	167.2	3 Years

Smart App Online

1kVA - 3kVA Tower & Rack/Tower Convertible OL Models

Waveform Output



Typical Applications

- Corporate Data Centers
- Corporate Servers
- Network and Storage Devices
- Complex Security Systems
- PBX and VoIP Installations

Features

- Double-Conversion Topology
- Pure Sine Wave Output
- Removable LCD Control Panel
- Fast Charge Technology
- Selectable Output Voltages
- Generator Mode
- GreenPower UPS ECO Mode
- PowerPanel Business Software

Smart App Online rack/tower UPS models provide pure sine wave output to mission-critical servers and equipment requiring seamless power correction. Equipped with Double-Conversion topology, these units offer generator compatibility and deliver clean AC power with zero transfer time.

Key User Benefits

Removable LCD Control Panel — Easily check 43 different UPS statuses and customizable operating settings from up to ten feet away, with optional cable, when the UPS is installed in a hard-to-reach location.

Extended Battery Modules (EBM) — Expand runtime and restore full backup power faster with EBMs featuring Fast Charge Technology.

Hot-Swappable Batteries — Eliminate downtime with hot-swappable batteries.

Smart Battery Management (SBM) — Reduce heat and improve UPS battery life up to five years with the three cycle battery charging system.

Rack/Tower Versatility — Adapt to changing needs with horizontal rack or vertical tower installation options.

GreenPower UPS™ ECO Mode — Save on electrical and cooling costs by using the configurable ECO Mode to improve UPS efficiency up to 93%.

Remote Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Total Protection



Blackout

















Higher Capacity UPS for Longer Runtimes

The total power load of connected equipment to be protected by an installed UPS and the expected runtime of the unit are two key factors in determining what size UPS (in terms of its VA/Watt rating) is best suited to a particular application. If it is anticipated that additional devices will be connected to the UPS in the future, thus increasing the power load, this should be considered as well.

Estimating expected UPS runtimes can be challenging, particularly in areas where the consistency of the utility power is not well known. Selecting a UPS with a load capacity 30-35% above the required power load offers the advantage of longer runtimes, thereby adding what could prove to be an important margin of safety to an installation's power protection. While the initial outlay for a UPS increases with its size, due to the higher capacity components required, operating costs are typically lower in the long run because component wear and tear is reduced when the UPS operates below maximum capacity. The ability to provide longer runtimes is also added insurance against a potentially lengthy power outages.

In addition to extended runtimes, sizing a UPS to run at loads that are significantly lower than its capacity also effectively increases battery life, minimizing the likelihood of battery failure, a leading cause of load loss.





OL1000RTXL2U / OL1500RTXL2U



OL2200RTXL2U



OL3000RTXL2U

- A USB, Serial Ports
- B Relay Outputs
- © EPO Port
- Cooling Fan
- **E** SNMP Slot
- **F** Extended Battery Port
- G RJ45 Protection
- H Input Breaker
- Output Breaker
- Oritical Load Outlets
- Noncritical Load Outlets

Rack/Tower U	PS Spec	ificatio	ns									1	kVA – 3kVA
Pure Sine Wave Models				Input			(Output				General	
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
OL1000RTXL2U	1000/ 900	18/6	60-150	40–70	5-15P	5-15R (8)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	2U	`	BP36V60ART2U
OL1500RTXL2U	1500/ 1350	9/3	60-150	40-70	5-15P	5-15R (8)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	2U	•	BP36V60ART2U
OL2200RTXL2U	2200/ 1800	18/6	60-150	40-70	L5-30P	5-20R (6) L5-20R (1)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	2U	•	BP72V60ART2U
OL3000RTXL2U	3000/ 2700	9/3	60-150	40-70	L5-30P	5-20R (6) L5-30R (1)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	2U	~	BP72V60ART2U



- A SNMP Slot
- B EPO Port
- **O** USB, Serial Ports
- Cooling Fans
- E Extended Battery Port
- Relay Output
- G Noncritical Load Outlets
- H Critical Load Outlets
- Output Breaker
- Input Breaker
- K RJ45 Protection



The Extended Battery Module offers increased runtimes during power outages.

Tower UP	S Speci	ficatior	ıs									1	kVA – 3kVA
Pure Sine Wav	e Models			Input			(Output			Ger	neral	
Model	Watts) Loa (Min		Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Comm. Frequency Ports (Hz)		Cord Length (ft)	Dimensions WxHxD (in)	Energy Saving	Compatible Extended Battery Module
OL1000XL	1000/ 900	18/6	60-150	40-70	5-15P	5-15R (9)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	6.3 x 9.1 x 16	>	BP36V60A
OL1500XL	1500/ 1350	9/3	60-150	40-70	5-15P	5-15R (9)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	6.3 x 9.1 x 16	>	BP36V60A
OL2200XL	2200/ 1800	18/6	60-150	40-70	L5-30P	5-20R (6) L5-20R (1)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	8.3 x 13.3 x 16.3	>	BP72V60A
OL3000XL	3000/ 2700	9/3	60-150	40-70	L5-30P	5-20R (6) L5-30R (1)	100, 110, 115, 120, 125 ±2%	50/60 ±0.25%	HID USB, Serial, SNMP, EPO	10	8.3 x 13.3 x 16.3	>	BP72V60A

Extended Battery Mod	ule				Vis	it website for ad	ded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP36V60ART2U	OL1000RTXL2U, OL1500RTXL2U	5 Hours	36V	12V/9.0AH (6)	17 x 3.5 x 16.9	50.6	3 Years
BP72V60ART2U	OL2200RTXL2U, OL3000RTXL2U	5 Hours	72V	12V/9.0AH (12)	17 x 3.5 x 23.6	96.8	3 Years
BP36V60A	OL1000XL, OL1500XL	5 Hours	36V	12V/9.0AH (6)	6.3 x 9.1 x 16	48.5	3 Years
BP72V60A	OL2200XL, OL3000XL	5 Hours	72V	12V/9.0AH (12)	8.3 x 13.3 x 16.3	97	3 Years

Smart App Sinewave

750VA - 6000VA Rack/Tower Convertible PR Models

Waveform Output



Typical Applications

- Corporate Servers
- Department Servers
- Storage Appliances
- Network Devices
- Telecom Installations

Features

- Line-Interactive Topology
- Pure Sine Wave Output
- 100% Active PFC Compatible
- Full Buck/Boost AVR
- Rotatable Multifunction Panel
- GreenPower UPS Bypass Design
- PowerPanel Business Software

Smart App Sinewave rack/tower UPS models, with Line-Interactive topology, fulfill the demands of corporate and departmental applications with pure sine wave output. Offering Active PFC power source compatibility, these units correct minor power fluctuations without switching to battery, thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Pure Sine Wave Output — Provide power protection to Energy Star 5.0 systems with Active PFC power supplies.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions with full buck/boost technology, delivering clean and consistent AC power to your electrical installations.

Multifunction Display Panel — Quickly and easily monitor all critical UPS operating parameters. Rotatable panel on 2U models permits status checking whether the UPS is installed vertically or horizontally.

GreenPower UPS™ Bypass Design — Save UPS energy costs by reducing energy consumption and heat buildup.

Rack/Tower Versatility - Adapt to changing needs with horizontal rack or vertical tower installation options.

Remote Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Professional Protection









Efficient Remote Management

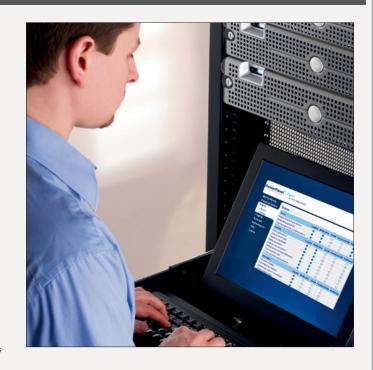
The Smart App Series includes full-featured network UPS management capabilities using the included PowerPanel Business Edition software suite and an optional SNMP/Network management card. These remote management tools enable centralized UPS management, monitoring, control and configuration, as well as safe shutdown of connected servers, workstations and other devices via a standard web browser or network management system (NMS). See pages 36 and 37 for more details.

Safe Shutdown

The PowerPanel Business Edition software suite, included with every Smart App Sinewave UPS, enables an administrator to remotely manage every aspect of the UPS and facilitate the orderly automatic shutdown of connected equipment in the event of an extended power outage. The software also provides comprehensive network power management for corporate servers and critical workstations supported by the UPS, such as: application/OS shutdown, event logging, reporting, alerts and notifications.

Programmable Outlet Control

Smart App UPS systems allow programming of critical outlets over secondary outlets. This gives administrators the ability to prioritize outlets and increase battery backup runtimes for the most critical equipment during extended power outages. Programmable outlet control also gives the administrator the option to delay-start the UPS, permitting the full recharge of its internal batteries before power is restored. This feature is vital to datacenter installations where seamless, uninterrupted equipment boot-up is a necessity.







PR750LCDRM1U / PR1000LCDRM1U



PR2200LCDRT2U



The LCD display panel provides critical load and battery information.

- A Multifunction LCD
- B Power Safety Cover
- Select Button
- Noncritical Load Outlets
- Critical Load Outlets
- **B** SNMP Slot
- **G** USB Port

- RG6 Coax Protection
- J RJ11/45 Protection
- K Serial Port
- Output Breaker
- M Input Breaker
- N Cooling Fan

Rack/Tower L	JPS Spe	cificati	ons									750	VA – 3000VA
Pure Sine Wave Mode	ls			Input			(Output				Genera	al
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
PR750LCDRM1U	750/ 560	23/7	80–150	50-60±3	5-15P	(6) 5-15R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	1U	~	N/A
PR1000LCDRM1U	1000/ 750	14/5	80–150	50-60±3	5-15P	(6) 5-15R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	1U	•	N/A
PR1000LCDRT2U 4	1000/ 700	32/11	80–150	50-60±3	5-15P	(8) 5-15R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	•	N/A
PR1500LCDRT2U	1500/ 1000	18/6	80–150	50-60±3	5-15P	(8) 5-15R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	N/A
PR2200LCDRT2U 4	2170/ 1600	16/6	80–150	50-60±3	5-20P	(8) 5-15/20R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	•	N/A
PR3000LCDRT2U	3000/ 2250	8/3	80–150	50-60±3	L5-30P	(8) 5-20R (1) L5-30R	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	BP48V75ART2U ◀

[◆]TAA compliant model available.





PR1000LCDRTXL2Ua / PR1500LCDRTXL2U



PR3000LCDRTXL2U

- Multifunction LCD
- B Power Safety Cover
- © Select Button
- Noncritical Load Outlets
- Critical Load Outlets
- Output Breaker
- G Extended Battery Port
- (H) Cooling Fan

- SNMP Port
- USB Port
- K Serial Ports
- EPO Port
- M Input Breaker
- N RG6 Coax Protection
- O RJ11/45 Protection

Rack/Tower XI	UPS S	pecifica	ations									1000	VA – 3000VA
Pure Sine Wave Models				Input			0	utput				Genera	ı
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
PR1000LCDRTXL2U	1000/ 700	32/11	80–150	50-60±3	5-15P	5-15R (6)	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	BP48V45ART2U
PR1000LCDRTXL2Ua	1000/ 750	39/18	80–150	50-60±3	5-15P	5-15R (8)	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	BP48V75ART2U ◀
PR1500LCDRTXL2U4	1500/ 1125	24/9	80–150	50-60±3	5-15P	5-15R (8)	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	BP48V75ART2U ◀
PR2200LCDRTXL2U	2150/ 1650	14/5	80–150	50-60±3	5-20P	5-15/20R (8)	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	~	BP48V75ART2U ◀
PR3000LCDRTXL2U	3000/ 2400	8/3	80–150	50-60±3	L5-30P	5-20R (6) L5-30R (1)	120±5%	50/60 ±0.1%	HID USB, Serial, SNMP, EPO	10	2U	•	BPL48V75ART2U 4

[◀] TAA compliant model available.



PR5000LCDRTXL5U / PR6000LCDRTXL5U



The LCD display panel provides critical load and battery information.

- A Input Breaker
- B Output Breaker
- O Input Power Cord
- SNMP Slot
- Serial Ports
- USB Port

- **G** EPO Port
- H RJ11/45 Protection
- Noncritical Load Outlets
- Oritical Load Outlets
- K Extended Battery Port
- High Volume Fan

Rack/Tower XI	_UPS S	pecific	ations									5000	VA – 6000VA
Pure Sine Wave Models				Input			0	utput				Genera	1
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
PR5000LCDRTXL5U	5000/ 4000	31/11	208–240	50-60±3	L6-30P	L6-20R (2) L6-30R (3)	208±5%	60±0.1%	HID USB, Serial, SNMP, EPO	10	5U	~	BPL48V75ART2U ◀
PR6000LCDRTXL5U	6000/ 4500	26/10	208–240	50-60±3	L6-30P	L6-20R (2) L6-30R (3)	208±5%	60±0.1%	HID USB, Serial, SNMP, EPO	10	5U	~	BPL48V75ART2U ◀

Extended Battery Mod	ule				Vi	sit website for a	dded runtimes.
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty
BP48V45ART2U	PR1000LCDRTXL2U	16 Hours	48V	12V/7AH (8)	17.25 x 3.5 x 15.75	60	3 Years
BP48V75ART2U (PR1000LCDRTXL2Ua, PR1500LCDRTXL2U, PR2200LCDRTXL2U, PR3000LCDRT2U	8 Hours	48V	12V/9AH (8)	17.25 x 3.5 x 19.5	67	3 Years
BPL48V75ART2U (PR3000LCDRTXL2U, PR5000LCDRTXL5U, PR6000LCDRTXL5U	8 Hours	48V	12V/9AH (12)	17.25 x 3.5 x 23.6	96	3 Years

[◀] TAA compliant model available.

Smart App Sinewave 750VA - 3000VA Tower & Mini-Tower PR Models

Waveform Output



Sine Wave

Typical Applications

- Corporate Servers
- Department Servers
- Storage Appliances
- Network Devices
- Telecom Installations

Features

- Line-Interactive Topology
- Pure Sine Wave Output
- 100% Active PFC Compatible
- Full Buck/Boost AVR
- Extendable LCD Control Panel
- GreenPower UPS Bypass Design
- PowerPanel Business Software

Smart App Sinewave tower and mini-tower UPS models, with Line-Interactive topology, fulfill the demands of corporate and departmental applications with pure sine wave output. Offering Active PFC power source compatibility, these units correct minor power fluctuations without switching to battery, thereby extending battery life-essential in areas where power fluctuations occur frequently.

Key User Benefits

Pure Sine Wave Output — Provide power protection to Energy Star 5.0 systems with Active PFC power supplies.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions with full buck/boost technology, delivering clean and consistent AC power to your electrical installations.

Extendable LCD Control Panel — Easily check 41 UPS statuses and customizable operating settings from up to ten feet away, with included cable, when the UPS is installed in a hard-to-reach location.

GreenPower UPS™ Bypass Design — Save UPS energy costs by reducing energy consumption and heat buildup.

Tower/Mini-Tower Form Factor — Fit these compact units into the tightest spaces.

Remote Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Professional Protection











GreenPower UPS™ Technology

GreenPower UPS Technology from CyberPower consists of three different energy-saving designs that improve operating efficiency, reduce heat generation and consume less power than conventional UPS models. Users can noticeably reduce their energy costs by using a GreenPower UPS system.

ECO Mode

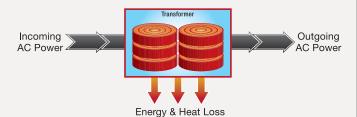
Our ECO Mode is a form of bypass technology that can be switched on fulltime, set for noncritical times (such as nights and weekends) or switched off. This design flexibility makes saving power and money an option anytime.

Bypass Design

Our patented Bypass Design allows current to bypass the transformer and AVR when utility power is normal, thus reducing energy consumption and associated costs. Since most utility power operates normally 88% of the time, this design allows for substantial savings on energy costs. This technology also significantly reduces heat generation, which is an important factor in reducing operating costs.

High-Efficiency Design

Our High-Efficiency Design significantly reduces power consumption, utilizing a compact charger and power inverter to create an ultra-efficient backup power system for home and office use.



The transformer in a conventional line-interactive UPS loses significant energy as heat is generated during normal utility power output.



GreenPower UPS Technology bypasses the transformer when utility power is normal, reducing energy consumption and heat loss.





PR2200LCD

- A SNMP Port
- B Cooling Fan
- © EPO Port
- D Serial, USB Ports
- Noncritical Load Outlets
- Critical Load Outlets
- **G** Output Breakers
- Input Breaker
- Extendable Control Panel
- Status Icon LEDs
- K LCD Status Panel
- Setup/Control Buttons

Tower & Mini-T	ower UF	S Spec	cification	ons								750V	50VA – 3000VA	
Pure Sine Wave Models				Input			(Output				General		
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
PR750LCD∢	750/ 525	15/3	75–154	47-63 (auto)	5-15P	5-15R (6)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	6	N/A	~	N/A	
PR1000LCD (1000/ 700	24.5/7	75–154	47-63 (auto)	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	6	N/A	~	N/A	
PR1500LCD4	1500/ 1050	24/8	75–154	47-63 (auto)	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	6	N/A	~	N/A	
PR2200LCD (2200/ 1980	26/8	75–154	47-63 (auto)	L5-30P	5-15R (8) 5-20R (2)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	10	N/A	~	N/A	
PR3000LCD (3000/ 2700	17/6	75–154	47-63 (auto)	L5-30P	5-15R (8) 5-20R (2)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	10	N/A	•	N/A	

[◆]TAA compliant model available.

Smart App LCD

500VA - 2190VA Rack/Tower Convertible OR Models

Waveform Output



Simulated Sine Wave

Typical Applications

- Department Servers
- Workgroup Servers
- Workstations
- Network Devices
- Telecom Appliances

Features

- Line-Interactive Topology
- Simulated Sine Wave Output
- Full Buck/Boost AVR
- Rotatable Multifunction LCD
- GreenPower UPS Bypass Design
- PowerPanel Business Software

Smart App LCD rack/tower UPS models, with Line-Interactive topology, address the needs of departmental servers, networking hardware and other equipment capable of using simulated sine wave output. These units correct minor power fluctuations without switching to battery, thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Simulated Sine Wave Output — Provide cost-effective power protection to servers, telecom and peripheral electronics.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions with full buck/boost technology, delivering clean and consistent AC power to your electrical installations.

Multifunction Display Panel — Quickly and easily monitor all critical UPS operating parameters. Rotatable LCD panel on 2U models permits status checking whether the UPS is installed vertically or horizontally. *Not available on CPS1500AVR*.

GreenPower UPS $^{\text{\tiny{M}}}$ **Bypass Design** — Save UPS energy costs by reducing energy consumption and heat buildup.

Rack/Tower Versatility — Adapt to changing needs with horizontal rack or vertical tower installation options.

Remote Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Professional Protection



Blackout









Voltage

Real-Time UPS Status and Alerts

The multifunction LCD front panel provides immediate, detailed information on the UPS battery and power conditions, alerting users to potential problems before they can affect critical equipment and cause downtime.

Menu Functions

UPS Status — Displays 12 vital UPS parameters including:

- Load/Current Level
- Battery Level
- Battery in Use
- Output Voltage
- Overload
- Silent Mode

- Runtime
- AVR in use (on 2U units only)
- Input Voltage
- Output Frequency
- Wiring Fault (on 2U units only)
- Normal Operation

Rack/tower convertible UPS models (2U) are equipped with a display panel that can be rotated 90 degrees, to make the screen easily readable whether the UPS is installed vertically as a tower or horizontally in a rack.



M Cooling Fan





OR500LCDRM1U / OR700LCDRM1U / OR1000LCDRM1U / OR1500LCDRM1U



OR2200LCDRM2U

- A Multifunction LCD
- B Power Safety Cover
- Select Button
- Battery & Surge Protected Outlets
- Surge Protected Outlets
- SNMP Slot

- G USB Port
- H RG6 Coax Protection
- RJ11/45 Protection
- Serial Ports
- Output Breaker
- Input Breaker

Rack/Tower UPS Specifications 500VA - 2190VA Simulated Sine Wave Models Output General Input NEMA Runtime On On NFMA Capacity Voltage Frequency Comm. Cord Compatible Outlet Battery Battery Energy Model (VA/ Range (VAC) Range (Hz) Length Extended Battery Plug **Ports** Load Voltage Frequency Size Saving Watts) Туре (ft) Module (Qty) (Min) (Qty) (VAC) (Hz) 500/ HID USB. OR500LCDRM1U 12/3 90-140 57-63 5-15P 5-15R (6) 120±10% 60±1% 10 1U N/A Serial, SNMP 300 HID USB 700/ OR700LCDRM1U 11/3 90-140 57-63 5-15P 5-15R (6) 120±10% 60±1% 10 1U N/A Serial, SNMP 400 1000/ HID USB OR1000LCDRM1U 13/3 90-140 57-63 5-15P 5-15R (6) 120±10% 60±1% 10 1U N/A Serial, SNMP 600 1500/ HID USB, OR1500LCDRM1U 11/2 90-140 57-63 5-15P 5-15R (6) 120±10% 60±1% 10 1U N/A Serial, SNMP 900 HID USB, 1500/ OR1500LCDRM2U 18/6 90-140 47-63 5-15P 5-15R (8) 120±10% 60±1% Serial (x2), 10 2U N/A 900 SNMP HID USB. 2000/ OR2200LCDRM2U Serial (x2), SNMP 13/5 90-140 47-63 5-20P 5-20R (8) 120±10% 60±1% 10 2U N/A HID USB 1500/ OR1500LCDRTXL2U 5-15R (8) 18/7 90-140 47-63 5-15P 120+10% 60+1% 10 2U BP48V75ART2U 4 Serial (x2), 1125 SNMP HID USB. 2190/ OR2200LCDRTXL2U 15/6 90-140 47-63 5-20P 5-20R (8) 120±10% 60±1% Serial (x2), 10 2U BP48V75ART2U 1650 SNMP 1500/ Serial (x2), CPS1500AVR 18/6 47-63 5-15P 85-150 5-15R (6) 120+10% 60+1% 10 2U N/A N/A SNMP

Extended Battery Modu	ule	Visit website for added runtimes									
Model	UPS Compatibility	Recharge Time	Voltage	Battery (Qty)	Dimensions WxHxD (in)	Weight (lbs)	Warranty				
BP48V75ART2U ◀	OR1500LCDRTXL2U, OR2200LCDRTXL2U	8 Hours	48V	12V/9AH (8)	17.25 x 3.5 x 19.5	67	3 Years				

[◆]TAA compliant model available.

PFC Sinewave

1500VA - 2200VA Rack/Tower Convertible OR Models

Waveform Output



Sine Wave

Typical Applications

- Department Servers
- Workgroup Servers
- Network Devices
- Telecom Appliances
- High-End Audio/Video

Features

- Line-Interactive Topology
- Pure Sine Wave Output
- 100% Active PFC Compatible
- Automatic Voltage Regulation
- Rotatable Multifunction LCD
- GreenPower UPS Bypass Design
- PowerPanel Business Software

PFC Sinewave rack/tower UPS models, with Line-Interactive topology, provide pure sine wave output to department servers, networking and telecommunications hardware and highend audio/video equipment requiring Active PFC power source compatibility.

These units correct minor power fluctuations without switching to battery, thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Pure Sine Wave Output - Provide power protection to Energy Star 5.0 systems with Active PFC power supplies.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions by delivering clean and consistent AC power to your electrical installations.

Multifunction LCD Display Panel — Quickly and easily monitor all critical UPS operating parameters. Rotatable LCD panel permits status checking whether the UPS is installed vertically or horizontally.

GreenPower UPS™ Bypass Design — Save UPS energy costs by reducing power consumption and heat buildup.

Rack/Tower Versatility — Adapt to changing needs with horizontal rack or vertical tower installation options.

Power Management — PowerPanel® Business Edition management software provides unsurpassed control and protection of the UPS and connected equipment and allows for remote management of the protected devices on the network.

Professional Protection

Sag











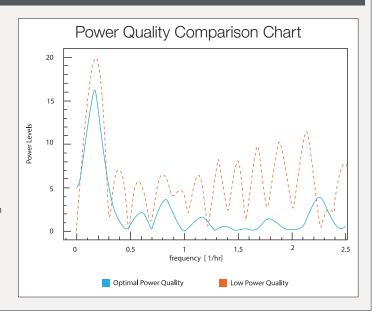


Sine Wave Power

Utility companies typically serve the needs of households and offices by distributing single phase alternating current (AC) power at a frequency of 60 Hz in the U.S. In the U.S., a graphical depiction of electrical power appears as a sine wave whereby the electrical signal alternates from +120 volts to -120 volts at a rate of 60 times per second (60 Hz). To enable more efficient operation of large, heavy equipment, utilities provide industry with three phase AC power which consists of three overlapping sine waves offset by 120 degrees, thereby maintaining voltage at close to the maximum available at all times.

While utility companies strive to distribute 100% sine wave power, multiple factors can introduce electrical noise into the AC power signal in the form of voltage sags, surges or spikes and various sine wave distortions. Sine wave power is important for the functioning of laptops, desktop computers and related peripheral equipment, as most microprocessor-based equipment can become inoperative or sustain damage with power signal distortions of more than 10%.

Computers incorporating Active PFC power supplies in their design architecture require optimal power quality to function properly.







OR1500PFCRT2U







- A Multifunction LCD
- B Power Switch Safety Cover
- © Select Button
- Battery & Surge Protected Outlets
- Output Breaker
- F RG6 Coax Protection
- **G** RJ45 Protection

- ⊕ EPO Port
- USB Port
- Serial Port
- Wiring Fault Indicator
- Input Breaker
- M Cooling Fan

The LCD display panel provides critical load and battery information regardless of the units vertical or horizontal orientation.

Rack/Tower U	PS Spec	ificatio	ns									1500V	A – 2200VA	
Pure Sine Wave Models Input						Output					General			
Model	Capacity (VA/ Watts)	/A/ Half/Full Range Range I		NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module		
OR1500PFCRT2U	1500/ 900	21/7	86–142	47–63	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	10	2U	•	N/A	
OR2200PFCRT2U	2000/ 1320	20/8	86-142	47–63	5-20P	5-20R (8)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	10	2U	•	N/A	
OR2200PFCRT2Ua	2200/ 1320	20/8	86–142	47–63	L5-30P	5-20R (8)	120±5%	50/60 ±1%	HID USB, Serial, SNMP, EPO	10	2U	>	N/A	

PFC Sinewave

850VA - 1500VA Mini-Tower CP Models

Waveform Output



Typical Applications

- Desktop Computers
- Workstations
- Personal Flectronics
- Home Networking/VoIP
- High-End Audio/Video

Features

- Line-Interactive Topology
- Pure Sine Wave Output
- 100% Active PFC Compatible
- Automatic Voltage Regulation
- Multifunction Display Panel
- GreenPower UPS Bypass Design
- Ultra-Quiet Design
- PowerPanel Personal Software

PFC Sinewave mini-tower UPS models, with Line-Interactive topology, provide pure sine wave output to individual work areas, home networking hardware and devices, entertainment electronics and equipment requiring Active PFC power source compatibility. These units correct minor power fluctuations without switching to battery thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Pure Sine Wave Output — Provide power protection to Energy Star 5.0 systems with Active PFC power supplies.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions by delivering clean and consistent AC power to your computers, workstations and peripherals.

Multifunction LCD Display Panel — Quickly and easily monitor all critical UPS operating parameters.

GreenPower UPS™ Bypass Design — Save UPS energy costs by reducing power consumption and heat buildup.

Ultra-Quiet Design — Minimize UPS sound emission for a quieter work environment.

USB Charging Ports — Charge smartphones and other devices using ports conveniently located on the front of higher capacity mini-towers.

Computer Monitoring — Safeguard open files and equipment with PowerPanel® Personal Edition management software that features a user-friendly dashboard interface for controlling and monitoring a CyberPower UPS.

Professional Protection





Sag







Blackout

Brownout Voltage

Active Power Factor Correction Power Supplies in Computers

With the growth of computer and peripheral equipment in businesses and homes over the last 30 years the awareness of the amount of energy these devices use has also increased.

The power consumed by desktop computers and workstations for many years

was inefficient. One factor contributing to the inefficiency was the design architecture of the power supplies. The power supply transforms AC power from the wall to DC power used by computers. This voltage transformation was relatively inefficient as reflected in low power factor ratings. In 1992, the US EPA, in conjunction with the IT industry, developed the Energy Star

program to drive the development of energy efficient products. Today the

program is recognized as an international standard for energy efficient

To comply with Energy Star standards, desktop computer and workstation manufacturers incorporate Active Power Factor Correction into their engineering designs enabling energy efficiencies of 95% or greater to be achieved. Computers with Active PFC power supplies require pure sine wave AC power, as supplied by utility companies, for trouble free operation making pure sine wave UPS systems the recommended choice for backup power. Simulated sine wave power, provided by entry-level UPS systems, may be incompatible with Active PFC devices. Pure sine wave power varies continuously from positive to negative (Figure 1) while simulated sine wave power mimics a pure sine wave using a squared-off approximation (Figure 2). Due to this approximation, simulated sine wave power creates a zero power gap for a momentary length of time. When power is interrupted, a computer with an Active PFC power supply may not recognize incoming simulated sine wave power and unexpectedly shut down or sustain system component stress.



Figure 1

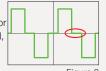


Figure 2

consumer products.



10.4"



- A RG6 Coax Protection
- B RJ11/45 Protection
- Communication Ports
- Wiring Fault Indicator
- Battery & Surge Protected Outlets
- F Surge Protected Outlets
- G Input Breaker
- H Tamper-Proof Power Button
- LCD Status Panel
- Setup & Control Buttons
- **K** USB Charging Ports

CP1500PFCLCD

Mini-Tower UPS Specifications												850V	A – 1500VA	
Pure Sine Wave Models				Input			Output				General			
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports (Qty)	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
CP850PFCLCD	850/ 510	8/2	90–139	57-63	5-15P	5-15R (10)	120±5%	60±1%	HID USB, Serial	5	N/A	~	N/A	
CP1000PFCLCD (1000/ 600	9/3	90–139	57-63	5-15P	5-15R (10)	120±5%	60±1%	HID USB, Serial	5	N/A	~	N/A	
CP1350PFCLCD	1350/ 810	9/3	90–139	57-63	5-15P	5-15R (10)	120±5%	60±1%	HID USB, Serial, (2) Front USB 5V/1A	5	N/A	•	N/A	
CP1500PFCLCD 4	1500/ 900	11/2	90–139	57-63	5-15P	5-15R (10)	120±5%	60±1%	HID USB, Serial, (2) Front USB 5V/1A	5	N/A	•	N/A	

[◀] TAA compliant model available.

Intelligent LCD

600VA - 1500VA Mini-Tower & Compact CP Models

Waveform Output



Simulated Sine Wave

Typical Applications

- Desktop Computers
- Workstations
- Personal Flectronics
- Home Networking/VoIP

Features

- Line-Interactive or Standby Topology
- Simulated Sine Wave Output
- Automatic Voltage Regulation
- Multifunction Display Panel
- GreenPower UPS Bypass or High-Efficiency Design
- Ultra-Quiet Design
- PowerPanel Personal Software

Intelligent LCD mini-tower UPS models with Line-Interactive topology, and compact UPS models with Standby topology, provide simulated sine wave output to individual work areas and home entertainment systems without Active PFC power supplies. These units correct minor power fluctuations without switching to battery, thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Simulated Sine Wave Output — Provide cost-effective power protection for servers, telecom and peripheral electronics.

Automatic Voltage Regulation (AVR) — Protect connected equipment and prevent costly business interruptions by delivering clean and consistent AC power to your computers, workstations and peripherals.

Multifunction LCD Display Panel — Quickly and easily monitor all critical UPS operating parameters.

GreenPower UPS™ Bypass or High-Efficiency Design — Save UPS energy costs by reducing power consumption and heat buildup.

Ultra-Quiet Design — Minimize UPS sound emission for a quieter work environment.

Computer Monitoring — Safeguard open files and equipment with PowerPanel® Personal Edition management software that features a user-friendly dashboard interface for controlling and monitoring a CyberPower UPS.

Professional Protection



Blackout









Essential Protection









Brownout

Power Protection without the Noise

Ultra-Quiet Design

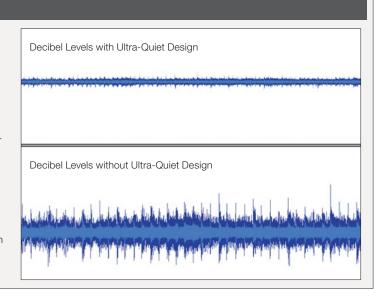
High-efficiency ventilation, GreenPower UPS™ Technology and innovative system components comprise the Ultra-Quiet Design found in CyberPower UPS models designed for home or office desktop applications, audio/video installations and quieter work environments.

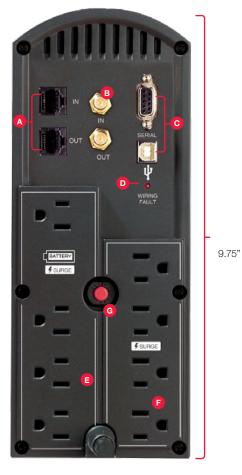
Noise Filtering

For improved picture and sound quality in audio/video systems, CyberPower uses advanced EMF/RFI noise filtering coils to reduce electromagnetic and radio frequency interference problems. These filters smooth out minor current fluctuations which cause disruptive humming and static.

Line Conditioning

Prolong the life of sensitive electronic equipment with line conditioning (AVR) technology that continually adjusts the incoming AC current, keeping it within safe levels and reducing stress caused by power fluctuations.





CyberPower

Stance Miller

Stance Mi

CP1500AVRLCD

- A RJ11/45 Protection
- B RG6 Coax Protection
- © Communication Ports
- Wiring Fault Indicator
- Battery & Surge Protected Outlets
- F Surge Protected Outlets
- **G** Input Breaker
- H Power Button
- Power Indicator
- U LCD Panel
- Mode Button

Mini-Tower & C	Compact	UPS S	pecific	ations								600V	/A – 1500VA
Simulated Sine Wave M	lodels			Input			(Output				General	
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module
CP600LCD*	600/ 340	9/2	100–140	57-63	5-15P	5-15R (8)	120±5%	60±1%	HID USB	6	N/A	N/A	N/A
CP750LCD* •	750/ 420	10/3	96–140	47–63	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB	5	N/A	~	N/A
CP825LCD*	825/ 450	8/2	100–140	57-63	5-15P	5-15R (8)	120±5%	60±1%	HID USB	6	N/A	N/A	N/A
CP685AVRLCD	685/ 390	10/2	90–140	60±3	5-15P	5-15R (8)	120±5%	60±1%	HID USB	6	N/A	~	N/A
CP825AVRLCD	825/ 450	8/2	90–140	60±3	5-15P	5-15R (8)	120±5%	60±1%	HID USB	6	N/A	~	N/A
CP850AVRLCD	850/ 510	7/1	90-140	60±3	5-15P	5-15R (9)	120±5%	60±1%	HID USB, Serial	6	N/A	~	N/A
CP1000AVRLCD	1000/ 600	6/1	90-140	60±3	5-15P	5-15R (9)	120±5%	60±1%	HID USB, Serial	6	N/A	~	N/A
CP1350AVRLCD	1350/ 810	9/2	90–140	60±3	5-15P	5-15R (8)	120±5%	60±1%	HID USB, Serial	6	N/A	~	N/A
CP1500AVRLCD	1500/ 900	11/3	90–140	60±3	5-15P	5-15R (8)	120±5%	60±1%	HID USB, Serial	6	N/A	~	N/A

CP825AVRLCD

 $^{^{\}star}\text{Unit}$ is non-AVR and uses Standby topology.

[◆]TAA compliant model available.

AVR

685VA - 1500VA Mini-Tower & Compact CP Models

Waveform Output



Simulated Sine Wave

Typical Applications

- Desktop Computers
- Workstations
- Personal Flectronics
- Home Networking/VoIP

Features

- Line-Interactive Topology
- Simulated Sine Wave Output
- Automatic Voltage Regulation
- GreenPower UPS Bypass or High-Efficiency Design
- Ultra-Quiet Design
- PowerPanel Personal Software

AVR mini-tower and compact UPS models, with Line-Interactive topology, provide simulated sine wave output to individual home and small office computer systems. These models correct minor power fluctuations without switching to battery, thereby extending battery life—essential in areas where power fluctuations occur frequently.

Key User Benefits

Simulated Sine Wave Output — Provide cost-effective power protection to servers, telecom and peripheral electronics.

Automatic Voltage Regulation (AVR) - Protect connected equipment and prevent costly business interruptions by delivering clean and consistent AC power to your computers, workstations and peripherals.

GreenPower UPS™ Bypass or High-Efficiency Design — Save UPS energy costs by reducing power consumption and heat buildup.

Ultra-Quiet Design — Minimize UPS sound emission for a quieter work environment.

Computer Monitoring — Safeguard open files and equipment with PowerPanel® Personal Edition management software that features a user-friendly dashboard interface for controlling and monitoring a CyberPower UPS.

Professional Protection



Voltage Sag





Power Blackout

Surge

Voltage Brownout

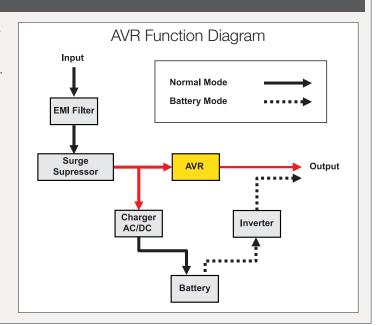
Voltage

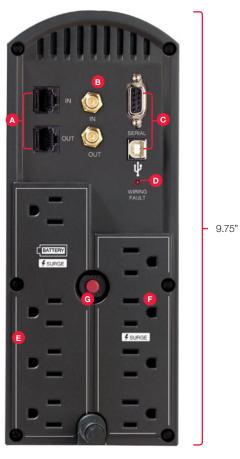
Automatic Voltage Regulation

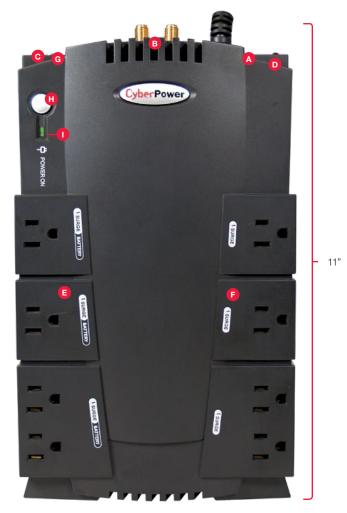
Automatic Voltage Regulation (AVR) in line-interactive UPS systems stabilizes the incoming AC signal—controlling high and low voltages—to maintain output power at a nominal 120 volts, without resorting to battery power. This significantly increases battery life and reduces the likelihood of data loss, memory freezes and system crashes.

How AVR works in a Line-Interactive UPS

A line-interactive UPS includes an AVR autotransformer, a special type of transformer designed to add or subtract powered coils of wire in response to variances in utility power input, thereby increasing or decreasing the magnetic field and the resulting output voltage to connected equipment. This type of UPS can tolerate undervoltage brownouts and overvoltage surges, without consuming reserve battery power, by automatically selecting different power taps on the AVR autotransformer. In normal operation, incoming AC current passes through the autotransformer where highs and lows are controlled, while also charging the internal storage battery. When the incoming voltage falls below a predetermined level, the UPS switches to battery back-up and the DC-AC inverter circuitry is engaged. Power will continue to be supplied by the battery-inverter circuit until incoming voltage returns to within the AVR manageable range.







CP1500AVRT CP825AVRG

- A RJ11/45 Protection
- B RG6 Coax Protection
- © Communication Ports
- Wiring Fault Indicator
- Battery & Surge Protected Outlets
- F Surge Protected Outlets

- G Input Breaker
- H Power Button
- Power Indicator

Mini-Tower & Compact UPS Specifications											685VA – 1500VA			
Simulates Sine Wave	Models			Input		Output					General			
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
CP685AVRG	685/ 390	10/2	90-140	60±1%	5-15P	5-15R (8)	120±5%	60±0.1	HID USB, Serial	6	N/A	~	N/A	
CP825AVRG	825/ 450	8/2	90-140	60±1%	5-15P	5-15R (8)	120±5%	60±1%	HID USB, Serial	6	N/A	~	N/A	
CP900AVR	900/ 560	12/3	90-140	60±3	5-15P	5-15R (8)	120±5%	60	HID USB, Serial	6	N/A	~	N/A	
CP1200AVR	1200/ 720	12/3	90-140	60±3	5-15P	5-15R (8)	120±5%	60	HID USB, Serial	6	N/A	~	N/A	
CP1500AVRT	1500/ 900	11/3	90-140	60±3	5-15P	5-15R (9)	120±5%	60	HID USB, Serial	6	N/A	~	N/A	

Standby

350VA - 625VA Compact CP Models

Waveform Output



Simulated Sine Wave

Typical Applications

- Desktop Computers
- Workstations
- Personal Electronics
- Home Networking/VoIP

Features

- Standby Topology
- Simulated Sine Wave Output
- GreenPower UPS High-Efficiency Design
- Ultra-Quiet Design
- PowerPanel Personal Software

Standby compact UPS models, with Standby topology, provide simulated sine wave output to individual home and small office computer systems. These models offer reliable lightning protection and battery backup during power interruptions, brownouts and blackouts.

Key User Benefits

Simulated Sine Wave Output — Provide cost-effective power protection to servers, telecom and peripheral electronics.

GreenPower UPS $^{\text{\tiny{M}}}$ **High-Efficiency Design** — Save UPS energy costs by reducing power consumption and heat buildup.

Ultra-Quiet Design — Minimize UPS sound emission for a quieter work environment.

Computer Monitoring — Safeguard open files and equipment with PowerPanel® Personal Edition management software that features a user-friendly dashboard interface for controlling and monitoring a CyberPower UPS.



Essential Protection



Blackout



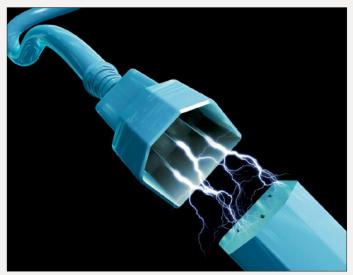




Surge Protection

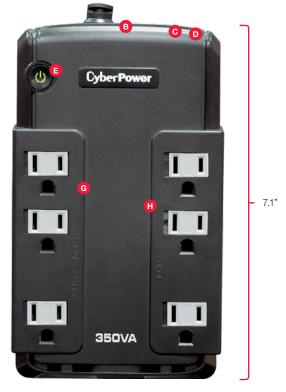
Utility power supplied to electrical outlets is not consistent 100% of the time and the short duration voltage surges or spikes that occasionally happen can cause damage to sensitive components in electronic devices such as computers and workstations. In addition to equipment damage, the potential for irretrievable data loss is high. In the U.S., the nominal or standard voltage supplied to household and office wiring is 120 volts. A voltage surge or spike (a longer lasting surge) can cause electronic components to overheat; either destroying them immediately or causing permanent damage that can lead to premature failure.

Protection can be easily provided in the form of a surge protector (also called a surge suppressor), a device located in the power circuit between the utility power outlet and the connected electronic equipment. Surge protectors work by diverting excess voltage to ground, allowing only the nominal voltage to pass through the wiring to connected devices. This is accomplished using a variable resistance component in the surge protector called a metal oxide varistor, or MOV. Under normal voltage conditions, the resistance of the MOV is such that it remains closed. As utility voltage increases beyond nominal however, the MOV resistance decreases accordingly, forcing the unwanted overvoltage to ground, maintaining a constant flow of nominal voltage to sensitive electronic equipment.



Lightning, a key source of voltage spikes, strikes the ground about 100 times each second, or 8 million times a day. –The National Severe Storms Laboratory





CP550SLG CP350SLG

- A Communication Ports
- B Input Breaker
- Wiring Fault Indicator
- D RJ45/RJ11 Protection
- Power ButtonPower Indicator
- G Battery & Surge Protected Outlets
 - H Surge Protected Outlets

Compact UPS	Specific				350	VA – 625VA								
Simulated Sine Wave Models				Input		Output					General			
Model	Capacity (VA/ Watts)	Runtime Half/Full Load (Min)	Voltage Range (VAC)	Frequency Range (Hz)	NEMA Plug Type	NEMA Outlet Type (Qty)	On Battery Voltage (VAC)	On Battery Frequency (Hz)	Comm. Ports	Cord Length (ft)	Rack Size	Energy Saving	Compatible Extended Battery Module	
CP350SLG*	350/ 255	8/2	96-140	47–63	5-15P	5-15R (6)	120±5%	50/60 ±1%	N/A	5	N/A	~	N/A	
CP425SLG	425/ 255	7/2	96–140	47–63	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB	5	N/A	~	N/A	
CP550SLG ◀	550/ 330	8/2	96–140	47–63	5-15P	5-15R (8)	120±5%	50/60 ±1%	HID USB	5	N/A	~	N/A	

^{*}Does not include PowerPanel® Software.

[◀]TAA compliant model available.

Network Power Management

Hardware

Typical Applications

- Data Centers
- Telecom Installations
- Storage Farms
- IT Closets
- Rack Installations

Features

- Remote Scheduling of UPS Operation
- Automatic Event Notification
- User-Upgradable Firmware via FTP
- TCP/IP, UDP, SNMP/HTTP, NTP and SMTP
- Auto-Shutdown
- Flexible Event Action Settings
- Multiple Alert Notifications
- 10Mbps or 10/100Mbps Ethernet Compatible
- Event Logging
- Quick Installation
- User-Friendly Software Interface

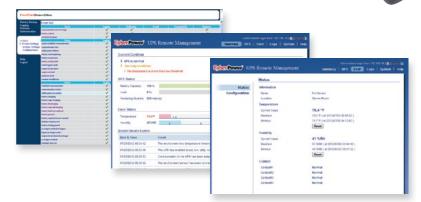
Remote Management Card

An optional Remote Management Card (RMCARD) may be added to any of the Smart App UPS systems to allow for remote management and configuration of the UPS via standard web browser or network management system (NMS). Especially suited to enterprise installations where the administrator may not be on-site, remote management offers complete control, including: scheduling of UPS shutdown, startup and reboot; multiple alert notification by e-mail, Windows Messenger and XMPP; flexible event action setting; event logging and automatic event notification sent through SNMP trap.

Environmental Sensor

For real-time temperature and humidity readings of a datacenter, IT closet and other critical environments combine the Environmental Sensor (ENVIROSENSOR) with the Remote Management Card (RMCARD203). Administrators can define environmental situations in Fahrenheit or Celsius, for example rising temperatures, and the RM Card will send out the assigned notification. The ENVIROSENSOR can also monitor up to four other connected devices such as security systems, switches and door alarms.





Remote Ma	anageme	nt Card Specific	ations					
Model	Remote Mgmt.	Auto Shutdown	Upgradable User Firmware	Auto Event Notification	Remote Scheduling	Ethernet Speeds (Mbps)	Auto Shutdown Clients	Environmental Sensor Compatible
RMCARD100	HTTP, NMS	Workstations Multiple Servers	N/A	SNMP TRAP	Shutdown, Startup, Reboot	10	50	N/A
RMCARD202 4	HTTP, NMS	Workstations Multiple Servers	~	SMTP, SMS, SNMP TRAP	Shutdown, Startup, Reboot	10/100	Unlimited	N/A
RMCARD203	HTTP, NMS	Workstations Multiple Servers	~	SMTP, SMS, SNMP TRAP	Shutdown, Startup, Reboot	10/100	Unlimited	~
RMCARD302	HTTP, NMS	Workstations Multiple Servers	~	SMTP, SMS, SNMP TRAP	Shutdown, Startup, Reboot	10/100	Unlimited	N/A

Environmental Sensor					For additional model s	specifications vis	it our website.
Model	Model RMCARD Compatibility		Humidity Accuracy	Voltage	Voltage Dimensions WxHxD (in)		Warranty
ENVIROSENSOR	RMCARD203	2°F – 158°F ± 1.8°F	0 – 90 RH ± 2%	12V	2.24 x 1.46 x 1.15	1.16	3 Years

[◆]TAA compliant model available.

Network Power Management

Software

Typical Applications

- Data Centers
- Telecom Installations
- Storage Farms
- IT Closets
- Rack Installations
- Business Workstations
- Desktop Computers

Features

- Remote Access via Web Browser
- Network Protocol Support
- Flexible Event Action Settings
- Auto-Shutdown
- Remote Scheduling
- Event Logging
- Security Management
- Quick Installation
- User-Friendly Interface

PowerPanel® Software by CyberPower

PowerPanel software, included with all compatible CyberPower UPS Systems, monitors and controls a UPS with a simple dashboard interface.

PowerPanel Business Edition

PowerPanel Business Edition software provides IT professionals with the tools they need to easily monitor and manage their backup power. This advanced software allows users remote access from any network PC with a web browser to instantly access vital UPS battery conditions, load levels and runtime information as well as provide graceful unattended shut down of network computers and



virtual machines connected to a battery backup during a power event. Power alerts can be set up to send notifications though e-mail, text or instant message. PowerPanel software is compatible with Windows XP, Windows Vista, Windows 7, Windows 8, Windows Server 2008, Windows Server 2012 and all versions of Windows 2k+.

PowerPanel Business Edition for Virtual Environments

This version of the PowerPanel software is a complete UPS system management tool that works with virtual environments. Protect an ESX/ESXi host that is connected to a UPS though a serial or USB port by installing PowerPanel Business Edition software, then use it to control the host and connected virtual machines. The software logs UPS statuses and generates actions



in response to administrator defined events. If an event occurs the software then sends notification to other connected systems to manage unattended shutdowns. PowerPanel management software has been tested and is compatible with many popular versions of virtual machine operating systems such as VMware vSphere™.



CyberPower is a member of VMware Technology Alliance Partner Program (TAP) providing integration between PowerPanel, VMware ESX/ESXi and all Smart App

PowerPanel Personal Edition

PowerPanel Personal Edition software is available free for download with all UPS systems with a USB or serial port. The software features a user-friendly dashboard interface for controlling and monitoring a CyberPower UPS systems. Its advanced functionality includes; runtime management, self testing, event logging and more. PowerPanel Personal Edition software is compatible with Windows 8, Windows 7, Windows Vista, Windows XP, Windows Server 2008 and all versions of Windows 2k+.



PowerPanel for Linux

PowerPanel for Linux is a simple command line Linux daemon to control a UPS system attached to a Linux based computer. Functions include automatic shutdown, monitoring, notifications and more. PowerPanel for Linux is compatible with all versions of Linux.

PowerPanel for Mac & Mac Energy Saver

PowerPanel for Mac is now available to provide Mac users with information and statistics about a connected UPS. During a power event, a CyberPower UPS system and Apple's Energy Saver power management software can be set up to safely and securely shut down a Mac without using PowerPanel software. PowerPanel for Mac is compatible with Mac OS X 10.4.1+.





Replacement Batteries

Features

- OEM Certified
- Leak Proof
- Maintenance-Free
- User-Installable
- Preassembled
- 18-Month Warranty

Battery Life

The typical lifespan of internal UPS batteries is three to five years. The number of discharge cycles a UPS system provides to connected devices and the environment it operates in affect the number of years can considered as a battery.

Maintenance

Regularly scheduled battery maintenance and monitoring can best determine when batteries are nearing end-of-life, specifically, when they can no longer supply 80% of their capacity. Inspection of a UPS and initiation of a self-test, at least once a year, is recommended. Despite their maintenance-free description (which simply means they do not require replacement fluid), sealed batteries need scheduled preventive maintenance to check connections and remove corrosion, as well as

Replacement

determine whether a battery is about to fail.

A simple, cost-effective way to restore life to a CyberPower UPS system is to replace its internal batteries with a CyberPower replacement battery cartridge. These sealed lead-acid batteries are certified to meet or exceed original manufacturer specifications. These battery replacement cartridges are preassembled for easy installation and are shipped in reusable packaging for subsequent delivery of expired batteries to a suitable recycling center. All CyberPower batteries include an 18-month warranty.

UPS Repla	acement Batte	ery Specifications				
Model	Style	UPS Model	Туре	Nominal Voltage	Nominal Amperage	Warranty
RB1270	BB/BP7.2-12	CP600LCD	Sealed lead-acid	12V	7AH	18 mo.
RB1280	BB/BP8-12	CP685AVR, CP685AVRG, CP685AVRLCD	Sealed lead-acid	12V	8AH	18 mo.
RB1280A	BB/HR1234W	CP825LCD, CP800AVR, CP825AVRLCD, CP850AVRLCD	Sealed lead-acid	12V	8AH	18 mo.
RB1290	BB/HR9-12	CP1000AVRLCD	Sealed lead-acid	12V	9AH	18 mo.
RB1270X2	BB/SH1228W	CP900AVR	Sealed lead-acid	12V	7AH	18 mo.
RB1280X2A	BB/HR1234W	CP1500AVRT, CP1500AVRLCD	Sealed lead-acid	12V	8AH	18 mo.
RB0670X2	BB/BP7-6	OR500LCDRM1U	Sealed lead-acid	6V	7AH	18 mo.
RB0690X2	BB/HR9-6	OR700LCDRM1U	Sealed lead-acid	6V	9AH	18 mo.
RB0670X4	BB/BP7-6	OR1000LCDRM1U	Sealed lead-acid	6V	7AH	18 mo.
RB0690X4	BB/HR9-6	OR1500LCDRM1U	Sealed lead-acid	6V	9AH	18 mo.
RB0690X4A	BB/HR9-6	PR750LCDRM1U, PR1000LCDRM1U	Sealed lead-acid	6V	9AH	18 mo.
RB1270X4	BB/BP7.2-12	OR1500LCDRM2U	Sealed lead-acid	12V	7AH	18 mo.
RB1270X4A	BB/BP7.2-12	PR1000LCDRT2U, PR1500LCDRT2U, PR1000LCDRTXL2U	Sealed lead-acid	12V	7AH	18 mo.
RB1270X4B	BB/SH1228WFR	OR1500LCDRTXL2U	Sealed lead-acid	12V	7AH	18 mo.
RB1290X4	BB/HR9-12	OR2200LCDRM2U	Sealed lead-acid	12V	9AH	18 mo.
RB1290X4A	BB/HR9-12	PR2200LCDRT2U	Sealed lead-acid	12V	9AH	18 mo.
RB1290X4B	BB/HR9-12FR	OR2200LCDRTXL2U	Sealed lead-acid	12V	9AH	18 mo.
RB1290X4D	BB/HR9-12FR	PR3000LCDRT2U, PR1000LCDRTXL2Ua, PR1500LCDRTXL2U, PR2200LCDRTXL2U, PR3000LCDRTXL2U	Sealed lead-acid	12V	9AH	18 mo.

Essential Power Solutions



Power Distribution Units

PDUs are engineered to distribute UPS, generator or utility AC power to multiple devices, servers and network/telecom equipment in the most demanding environments. With more than 130 models offered, in Basic, Metered, Monitored and Switched configurations, CyberPower offers a solution to meet virtually every need.



Rackbar™ Surge Protectors

Industrial rackmount surge protectors from CyberPower are designed for the most demanding applications and will safeguard systems and networking equipment against destructive power interruptions that can cause equipment damage, loss of valuable data and time.



Surge Protectors

Professional grade surge protectors from CyberPower are designed for office environments. Features include surge protected outlets and data line protection (DSL/Phone/Fax), as well as child-safe outlets (on select models). All units are covered by a Lifetime Product Warranty and Connected Equipment Guarantee.



Telecom Power Supplies-FTTx

CyberShield DC Power Supplies and reliable battery backup systems are specifically designed for optical network terminal (ONT) broadband applications, cable telephony, wireless local loop (WLL), fiber to the home (FTTH), VoDSL applications and Integrated Access Devices (IAD) for customer premises equipment (CPE). Commitment to meticulous engineering has brought the CyberPower CyberShield DC product line to the forefront of fiber applications in the telecommunications industry.



Power Accessories

CyberPower offers an extensive line of computer and consumer electronics such as hubs, USB chargers, mobile batteries, power inverters plus a variety of cables to connect peripherals or networking devices. All of these products are designed to meet the growing power needs of IT professionals and tech-savvy consumers everywhere.

Industry Terms

Alternating Current (AC)

The direction of an electric charge that is flowing in a circuit is constantly being reversed back and forth.

Amp (ampere)

The standard unit of measure for electrical current, defined as the amount of electrical flow equal to one coulomb per second.

Apparent Power

The product of the applied voltage and current in an AC circuit.

Blackout

A power failure in which line voltage drops to zero.

Brownout

A drop in voltage in electrical power supply.

Buck/Boost

Full automatic voltage regulation in a UPS stabilizes low voltage (boost) and high voltage (buck) to maintain nominal 120V power, without resorting to battery power when minor power fluctuations occur.

Coaxial Cable

Cables that are made of an inner conductor surrounded by an insulator and a shield that are generally used for TV antennas, satellite dishes, cable modems and certain computer networking applications.

Current

The flow of electric charge, measured in amps.

DHCP

Dynamic Host Configuration Protocol (DHCP), automatically assigns an IP address to a device on a network.

Direct Current (DC)

The unidirectional flow of a electric charge.

Double-Conversion UPS

This high-end UPS system converts incoming utility AC power into DC power and then back into AC power, charging connected devices with the UPS battery. The isolated process ensures clean and stable output voltage and zero transfer time. This UPS system is ideal for equipment sensitive to power fluctuations such as corporate data centers, servers, and network and storage devices.

Efficiency (Energy Conversion Efficiency)

The ratio between the amount of apparent power and the amount of true power used by an electrical device. The closer the true power value is to the apparent power, the more efficient the device.

Electromagnetic Interference (EMI)

Commonly referred to as line noise, these interference signals can disrupt or degrade the performance of a circuit by inserting abnormalities into the system. Also referred to as radio frequency interference (RFI) when in high or radio frequency.

Frequency

The number of cycles in a given time period, which is measured in Hertz.

Ground

An electrical system connection that serves as a conduit between the circuit and earth.

Half-Load

The midpoint in the maximum load capacity for a UPS.

Hard-wired

High amperage devices that require installation by a qualified electrician to be directly wired-in, instead of simply being plugged in to an outlet.

Hertz (Hz)

The unit for frequency, defined as the number of cycles per second.

Hot-Swappable Battery

A term used to describe the functions of replacing a UPS battery without shutting down the unit.

Joule

A measure of electrical energy — one joule is defined as the energy needed to pass one ampere of current through one ohm of resistance.

Line-Interactive UPS

Functions the same as a standby UPS, with the additional feature of some voltage regulation built in. It switches to battery power when voltage drops too low, just as a standby UPS does, however if the voltage only drops slightly, a line-interactive UPS corrects this without using battery power. The functionality of these mid- to high-grade units falls between standby and online UPS units.

Load

The amount of power consumed by an electrical device on a circuit. Load capacity is a critical factor in selecting a UPS or surge protector.

MOV

Metal Oxide Varistor is an electronic component that is used to protect circuits against excessive, short-lived, voltages.

Nominal Voltage

The standard voltage for a circuit or system. Common nominal voltages in the U.S. includes 120VAC, 208VAC and 240VAC.

Overvoltage

This occurs when incoming voltage is higher than normal but not high enough to be classified as a surge.

Power Factor (PF)

The ratio of real power (watts) to apparent power (VA), expressed as a number between 0 and 1. Watts divided by VA = Power Factor

Power Factor Correction

Controls the incoming power to a power supply in order to bring the power factor as close to unity power as possible.

Radio Frequency Interference (RFI)

See Electromagnetic Interference.

Real Power

The amount of power being drawn by a system, measured in watts. Real power is a function of VA (apparent power) and the power factor.

RJ11, RJ14, RJ45

The abbreviation of registered jack (RJ) – RJ11 is for standard phone lines, RJ14 is for multiple phone lines and RJ45 is for Ethernet.

Runtime

The maximum period of time battery power is output from a UPS to its connected devices during a power interruption. Runtime is dependent upon the total load of all connected equipment.

Industry Terms

Simulated Sine Wave

A modified or approximated sine wave AC power output. Simulated (or non-sinusoidal) waveforms may also be referred to as a squared sine wave, modified sine wave, trapezoidal sine wave or quasi sine wave.

Sine Wave

A smooth, repetitive oscillation of AC power.

Single Phase Power

Refers to the distribution of alternating current electric power using a system in which all the voltages of the supply vary in unison.

SMTP

Simple Mail Transfer Protocol is the standard for e-mail transmission on the Internet.

SNMP

Simple Network Management Protocol is a commonly used protocol for devices to communicate over a network.

Spike

A spike is a sudden, brief power surge, usually lasting less than 1ms.

Standby UPS

A UPS that passes utility power straight through to the output when conditions are stable, but switches to battery power when utility voltage drops below an acceptable level.

Surge

Periods when line voltage increases dramatically, typically lasting longer than 1ms, but less than a few seconds, though they can last longer.

Total Harmonic Distortion (THD)

A calculated measure of the reduction in sine wave clarity caused by stray wave frequencies.

Thermal Dissipation

The process of dissipating heat from an electrical system via air or liquid cooling; also a term for the amount of heat a device can emit.

Transfer Time

The time it takes UPS to switch from AC power to battery power.

Transformer

A device that converts AC line voltage to a higher or lower value.

U

The standard unit of measure for rack-mounted equipment. A device measuring 1U is 1.75 inches high, 2U is 3.50 inches, etc.

Undervoltage

Related to both brownout and voltage sag, undervoltage falls between these two, occurring when voltage is lower than normal for an extended period of time without recovering, but not to low that the electronic device will not function.

USB (HID Compliant)

Universal Serial Bus devices are used to connect various components to a computer. An HID (Human Interface Device) compliant USB follows a specific protocol for communication that allows it to be used with virtually any system.

Volt

The difference in electric potential between two points when one amp of current dissipates one watt of power.

Volt-Ampere

The unit used to express apparent power.

Voltage Regulator

A device or component that normalizes voltage to a certain standard when it is fluctuating.

Watt

A unit of measure for true power consumption.

Waveform

Is a representation (or form) of how alternating current (AC) varies with time. Common waveform representations include sine wave, square wave and trapezoidal wave. An instrument called an oscilloscope can be used to visually represent a wave as a repeating image on a screen.

Wiring-Fault

Refers to an abnormal flow of current that is due to an improperly grounded electrical outlet





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